

**Amendment to the Specification:**

Please replace the original paragraph [0013] with the following amended paragraph [0013]:

[0013] ~~drawing~~ spinning the reduced diameter preform to obtain a graded index plastics material optical fiber,

Please replace the original paragraph [0023] with the following amended paragraph [0023]:

[0023] ~~drawing~~ spinning the preform to obtain a graded index plastics material optical fiber, in which method the production of the preform comprises a step with substantially no flow of the compositions along the system.

Please replace the original paragraph [0025] with the following amended paragraph [0025]:

[0025] Thus the invention consists in separating the production of a liquid preform (in other words a column) from spinning ~~drawing~~ it, for example by dissociating them temporally.

Please replace the original paragraph [0026] with the following amended paragraph [0026]:

[0026] The invention offers great flexibility in the production of the fiber. The liquid preform method is very easy and very quick to use. The method adapts the phase upstream of spinning ~~drawing~~ to the structure of the required fiber (SI, GI, complex profiles) without modifying the spinning ~~drawing~~-tools. The production time of the preform can be adjusted as a function of the characteristics of the compositions chosen (structure, viscosity, etc.), the temperature of the system, and the

nature of the interactions between the compositions and the kinetics of those interactions.

Please replace the original paragraph [0031] with the following amended paragraph [0031]:

[0031] In a first embodiment of the method according to the invention, said step with substantially no flow includes a step of obtaining a diameter of the preform compatible with said spinning ~~drawing~~.

Please replace the original paragraph [0032] with the following amended paragraph [0032]:

[0032] By diameter compatible with said ~~drawing~~ spinning is meant a diameter up to approximately 20 to 30 times greater than the required diameter of the finished fiber.

Please replace the original paragraph [0034] with the following amended paragraph [0034]:

[0034] In a second embodiment of the method according to the invention, the production of the preform includes said step substantially without flow followed by a step of obtaining a radial dimension of the preform compatible with said spinning ~~drawing~~.

Please replace the original paragraph [0047] with the following amended paragraph [0047]:

[0047] The preform formation system can include a spinning ~~drawing~~ member which receives axially said member with varying internal dimensions, and said spinning ~~drawing~~ member can contain a removable closure member.

Please replace the original paragraph [0049] with the following amended paragraph [0049]:

[0049] FIG. 1 is a diagrammatic view in section of a first stepped index preform formation and ~~drawing~~ spinning system using a first embodiment of the method according to the invention.

Please replace the original paragraph [0050] with the following amended paragraph [0050]:

[0050] FIG. 2 is a diagrammatic view in section of a second continuous graded index preform formation and ~~drawing~~ spinning system using a second embodiment of the method according to the invention.

Please replace the original paragraph [0051] with the following amended paragraph [0051]:

[0051] FIG. 3 is a diagrammatic view of the members used after ~~drawing~~ spinning in the implementation of the method of fabricating a graded index plastics material optical fiber.

Please replace the original paragraph [0056] with the following amended paragraph [0056]:

[0056] FIG. 1 is a diagrammatic view in section, in an axial plane X, of a first system 1 for forming and ~~drawing~~ spinning a preform, for example a stepped index preform, using a first embodiment of the method according to the invention.

Please replace the original paragraph [0064] with the following amended paragraph [0064]:

[0064] Withdrawing the central tube 3 in the direction of the arrow A (as symbolically represented in dashed outline) brings the compositions 12, 13 into contact and thus form a liquid preform (not shown) whose index features the required step. The area Z1 initially reserved for isolating the compositions then corresponds to the area of formation of the stepped index preform. According to the invention, the preform is obtained with no flow of the core and cladding compositions along the system 1, with the result that the rate at which the preform is produced no longer depends on the ~~drawing~~ spinning rate. In this sense the method according to the invention is discontinuous.

Please replace the original paragraph [0065] with the following amended paragraph [0065]:

[0065] After withdrawing the closure member 61 and the controlled application of pressure to the system 1, typically a pressure from 0.5 bar to 5 bar, the liquid preform (not shown) flows along the axis X into the area Z4 of the conical member 4 and is thus brought to the calibrated die 6. The preform is subjected in this area to a variation of its diameter to a diameter compatible with spinning ~~drawing~~, subject to a condition of geometrical similarity, i.e. without modifying the relative size of its various portions, and retaining a discontinuously graded (i.e. stepped) refractive index.

Please replace the original paragraph [0068] with the following amended paragraph [0068]:

[0068] FIG. 2 is a diagrammatic view in section in an axial plane X of a second system 1' for forming and spinning ~~drawing~~ a preform, for example one with a continuously graded index, using a second embodiment of the method according to the invention.

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Please replace the original paragraph [0079] with the following amended paragraph [0079]:

[0079] FIG. 3 is a diagrammatic view of members for implementing the method of fabricating a gradient index plastics material optical fiber used after spinning ~~drawing~~ in accordance with the first or second embodiment.

Please replace the original paragraph [0089] with the following amended paragraph [0089]:

[0089] According to the invention, the step of forming the required index gradient and the step of reducing the diameter of the graded index preform can also be carried out simultaneously and without flow, i.e. without continuous spinning ~~drawing~~.